

MMBTA14**NPN EPITAXIAL SILICON TRANSISTOR**

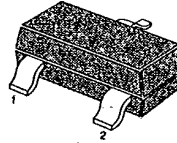
T-29-29

DARLINGTON AMPLIFIER TRANSISTOR**ABSOLUTE MAXIMUM RATINGS ($T_a = 25^\circ\text{C}$)**

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	V_{CB0}	30	V
Collector-Emitter Voltage	V_{CES}	30	V
Emitter-Base Voltage	V_{EB0}	10	V
Collector Current	I_C	300	mA
Collector Dissipation	P_C	350	mW
Storage Temperature	T_{stg}	150	$^\circ\text{C}$

• Refer to MMBT6427 for graphs

SOT-23



1. Base 2. Emitter 3. Collector

ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ\text{C}$)

Characteristic	Symbol	Test Condition	Min	Max	Unit
Collector-Emitter Breakdown Voltage	BV_{CES}	$I_C = 100\mu\text{A}$, $I_B = 0$	30		V
Collector Cutoff Current	I_{CBO}	$V_{CB} = 30\text{V}$, $I_E = 0$		100	nA
Emitter Cutoff Current	I_{EBO}	$V_{EB} = 10\text{V}$, $I_C = 0$		100	nA
DC Current Gain	h_{FE}	$V_{CE} = 5\text{V}$, $I_C = 10\text{mA}$ $V_{CE} = 5\text{V}$, $I_C = 100\text{mA}$	10,000 20,000		
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = 100\text{mA}$, $I_B = 0.1\text{mA}$		1.5	V
Base-Emitter On Voltage	V_{BE}	$I_C = 100\text{mA}$, $V_{CE} = 5\text{V}$		2.0	V
Current Gain-Bandwidth Product	f_T	$I_C = 10\text{mA}$, $V_{CE} = 5\text{V}$ $f = 100\text{MHz}$	125		MHz

3

Marking

